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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,701	01/12/2004	Shunpei Yamazaki	07977-276002 / US4942D1	9100
26171 7590 08/23/2007 FISH & RICHARDSON P.C. P.O. BOX 1022			EXAMINER	
			NGUYEN, DAO H	
MINNEAPOL	IS, MN 55440-1022		ART UNIT	PAPER NUMBER
			2818	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commons	10/754,701	YAMAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dao H. Nguyen	2818				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion is precised to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUI 1.136(a). In no event, however, may od will apply and will expire SIX (6) M tute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	· .					
1) Responsive to communication(s) filed on 13	April 2007.					
2a) This action is <b>FINAL</b> . 2b) ⊠ TI	This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	r <i>Ex par</i> te Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 40-109 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) Claim(s) is/are allowed.  6) Claim(s) 40-109 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	ccepted or b) objected he drawing(s) be held in abey ection is required if the drawi	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for forei  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the priority docume  application from the International Bure  * See the attached detailed Office action for a least content of the priority document of the priority do	ents have been received. ents have been received in riority documents have be eau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 0707.	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application				

## **DETAILED ACTION**

1. In response to the communications dated 04/13/2007 through 07/19/2007, claims 40-109 are active in this application.

Claim(s) 1-39 have been cancelled.

Claims 96-109 are newly added claims.

## Remarks

2. Applicant's argument(s), filed 04/13/2007, have been fully considered. The rejection of 12/14/2006 have been withdrawn. New rejection based on the same reference (US 6,310,360 to Forrest et al.) is made below.

Furthermore, in response to Applicant's argument(s), Examiner agree or assert that the device of Forrest described by figs. 5 and 6 is one **without a phosphorescent emitter** and operating at a high bias and that there is no light at low medium bias (col. 16, lines 14-30).

However, Forrest does disclose device(s) comprising electroluminescent element using a luminescent material (fluorescent emitter, sensitizer molecular or ISC Agent, phosphorescent emitter) in which electroluminescence is obtained by triplet exitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27; col. 15, lines 21-50; col. 16, lines 31-35). Forrest in view of Kimura (US 6,518,941) does disclose the claimed structure (see the following rejection for details). Though Forrest in view of Kimura is silent on the

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operating voltage(s) of the disclosed luminescent-material-using device, the device of Forrest in view of Kimura is structurally identical to the claimed device, hence, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device.

According to MPEP §2112.01, where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). "When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not." In re Spada, 911 F.2d 705, 709, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best, 562 F.2d at 1255, 195 USPQ at 433. See also Titanium Metals Corp. v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (Claims were directed to a titanium alloy containing 0.2-0.4% Mo and 0.6-0.9% Ni having corrosion resistance. A Russian article disclosed a titanium alloy containing 0.25% Mo and 0.75% Ni but was silent as to corrosion resistance. The Federal Circuit held that the claim was anticipated because the percentages of Mo and Ni were squarely within the claimed ranges. The court went on to say that it was immaterial what properties the alloys had or who

discovered the properties because the composition is the same and thus must necessarily exhibit the properties.). See also In re Ludtke, 441 F.2d 660, 169 USPQ 563 (CCPA 1971) (Claim 1 was directed to a parachute canopy having concentric circumferential panels radially separated from each other by radially extending tie lines. The panels were separated "such that the critical velocity of each successively larger panel will be less than the critical velocity of the previous panel, whereby said parachute will sequentially open and thus gradually decelerate." The court found that the claim was anticipated by Menget. Menget taught a parachute having three circumferential panels separated by tie lines. The court upheld the rejection finding that applicant had failed to show that Menget did not possess the functional characteristics of the claims.); Northam Warren Corp. v. D. F. Newfield Co., 7 F. Supp. 773, 22 USPQ 313 (E.D.N.Y. 1934) (A patent to a pencil for cleaning fingernails was held invalid because a pencil of the same structure for writing was found in the prior art.). See further MPEP § 2114.

## Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim(s) 40-109 are rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent No. 6,310,360 to Forrest et al., in view of Kimura, U.S. Patent No. 6,518,941.

Regarding claim 40, Forrest discloses a light emitting device comprising:

an electroluminescent element using a luminescent material (fluorescent emitter, sensitizer molecular or ISC Agent, phosphorescent emitter; col. 9, line 18 to col. 11, line 18) in which electroluminescence is obtained by triplet excitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27: the ISC Agents convert all of the excitations/excitons into their triplet excitations/excitons, which do emit; see also col. 15, lines 21-50; col. 16, lines 31-35).

Forrest is silent on a transistor electrically connected to the electroluminescent element, wherein digital signals are applied to a gate electrode of the transistor.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 (figs. 1, 2) using a luminescent material and a thin film transistor 10710 electrically connected to the electroluminescent element 10810; wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film

controlling the device.

transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claim 41, Forrest/Kimura disclose the device wherein the transistor is a TFT. See col. 2,lines 19-49; col. 3, line 47 to col. 4, line 61 of Kimura.

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Regarding claims 42-46, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 47, Forrest discloses a light emitting device comprising an electroluminescent element which includes a thin film including a luminescent material expressed by a following formula:

wherein Et represents etyl group; and M represents an element belonging to group 8 to 10 of a periodic table (col. 9, line 18 to col. 11, line 18; col. 17, line 11 to col. 19, line 19; and col. 20, lines 42-44).

Forrest is silent on a transistor electrically connected to the electroluminescent element, wherein digital signals are applied to a gate electrode of the transistor.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 (figs. 1, 2) using a luminescent material and a thin film transistor 10710 electrically connected to the electroluminescent element 10810; wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claim 48, Forrest/Kimura disclose the device wherein M is an element

selected from the group consisting of nickel, cobalt and palladium. See col. 9, line 18 to col. 11, line 18; col. 17, line 11 to col. 19, line 19; and col. 20, lines 42-44 of Forrest.

Regarding claims 49-54, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 55, Forrest discloses a light emitting device comprising:
an electroluminescent element (col. 9, line 18 to col. 11, line 18), wherein
the electroluminescent element includes a thin film including a luminescent material
expressed by a following formula:

wherein M represents an element belonging to group 8 to 10 of the periodic table (col. 9, line 18 to col. 11, line 18; col. 17, line 11 to col. 19, line 19; and col. 20, lines 42-44).

Forrest is silent on a transistor electrically connected to the electroluminescent element, wherein digital signals are applied to a gate electrode of the transistor.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 (figs. 1, 2) using a luminescent material and a thin film transistor 10710 electrically connected to the electroluminescent element 10810; wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of

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Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claim 56, Forrest/Kimura disclose the device wherein M is an element selected from the group consisting of nickel, cobalt and palladium. See col. 9, line 18 to col. 11, line 18; col. 17, line 11 to col. 19, line 19; and col. 20, lines 42-44 of Forrest.

Regarding claims 57-62, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 63-65, Forrest/Kimura discloses the light emitting device comprising all claimed limitations. See col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61 of Kimura. Nevertheless, it is noted that since this invention is about a device itself, not about method(s) for operating a device, therefore, "method of operating a device" limitation(s) would not have patentable weight on device claim(s).

Regarding claim 66, Forrest discloses a light emitting device comprising:
an electroluminescent element comprising a first electrode, a second electrode,
and a luminescent material (fluorescent emitter, sensitizer molecular or ISC Agent,
phosphorescent emitter; col. 9, line 18 to col. 11, line 18) interposed between the first
and the second electrodes (fig. 5, and col. 9, line 18 to col. 11, line 18);

wherein, in the luminescent material, electroluminescence is obtained by triplet excitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27: the ISC Agents convert all of the excitations/excitons into their triplet excitations/excitons, which do emit).

Forrest is silent on a transistor having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the first electrode, and wherein digital signals are applied to the gate electrode.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 having a first electrode (lower electrode), a second electrode (upper electrode 111; figs. 1, 2); a luminescent material interposed between the first electrode and the second electrode; and a thin film transistor 10710 having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the first electrode of the electroluminescent element 10810 (fig. 2); wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in

order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claims 67-72, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 73, Forrest discloses a light emitting device comprising:

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an electroluminescent element comprising a first electrode, a second electrode, and a luminescent material interposed between the first and the second electrodes (fig. 5, and col. 9, line 18 to col. 11, line 18);

wherein, in the luminescent material, electroluminescence is obtained by triplet excitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27: the ISC Agents convert all of the excitations/excitons into their triplet excitations/excitons, which do emit).

Forrest is silent about a p-channel transistor having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the first electrode, and wherein digital signals are applied to the gate electrode.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 having a first electrode (lower electrode), a second electrode (upper electrode 111; figs. 1, 2); a luminescent material interposed between the first electrode and the second electrode; and a thin film transistor 10710 having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the first electrode of the electroluminescent element 10810 (fig. 2); wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61. In addition, it would have been well known and obvious to those skilled

in the art that the transistor of Kimura can be either a p-channel or an n-channel transistor, any of which would equally fulfill the invention of Kimura.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

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Regarding claim 74, Forrest/Kimura disclose the device wherein the first electrode is an anode, and the second electrode is a cathode. See fig. 5, and col. 5, line 65 to col. 6, line 8 of Forrest.

Regarding claims 75-80, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 81, Forrest discloses a light emitting device comprising:

an electroluminescent element comprising an anode, a cathode, and a

luminescent material interposed between the anode and the cathode (fig. 5, and col. 9, line 18 to col. 11, line 18);

wherein, in the luminescent material, electroluminescence is obtained by triplet excitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27: the ISC Agents convert all of the excitations/excitons into their triplet excitations/excitons, which do emit).

Forrest is silent on a transistor having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the anode, and wherein digital signals are applied to the gate electrode.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 having a first electrode (lower electrode), a second electrode (upper

electrode 111; figs. 1, 2); a luminescent material interposed between the first electrode and the second electrode; and a thin film transistor 10710 having a source region, a drain region and a gate electrode, wherein any one of the source region and the drain region is electrically connected to the first electrode of the electroluminescent element 10810 (fig. 2); wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of

Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claim 82, Forrest/Kimura disclose the device wherein the transistor is a p-channel transistor. See col. 4, lines 40-53 of Arai.

Regarding claim 83-88, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claim 89, Forrest discloses a light emitting device comprising:
an electroluminescent element comprising a first electrode, a second electrode,
and a luminescent material interposed between the anode and the cathode (fig. 5, and
col. 9, line 18 to col. 11, line 18);

wherein, in the luminescent material, electroluminescence is obtained by triplet excitation (col. 2, line 58 to col. 3, line 53; col. 5, lines 9-27: the ISC Agents convert all of the excitations/excitons into their triplet excitations/excitons, which do emit).

Forrest is silent about a transistor having a source region, a drain region and a gate electrode, wherein an LDD region is not particularly provided between the source

region and the drain region; and wherein any one of the source region and the drain region is electrically connected to the first electrode, wherein digital signals are applied to the gate electrode.

Kimura discloses a light emitting device comprising an electroluminescent element 10810 having a first electrode (lower electrode), a second electrode (upper electrode 111; figs. 1, 2); a luminescent material interposed between the first electrode and the second electrode; and a thin film transistor 10710 having a source region, a drain region and a gate electrode, wherein an LDD region is not particularly provided between the source region and the drain region; and wherein any one of the source region and the drain region is electrically connected to the first electrode of the electroluminescent element 10810 (fig. 2); wherein digital signals are applied to a gate electrode of the transistor 10710 to switch the transistor on/off. See further col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Forrest so that it would include a thin film transistor electrically connected to the electroluminescent element as that of Kimura in order to control currents applied to the electroluminescent element, hence, to control the luminous intensity of the electroluminescent element. By using digital signal to control the transistor serially connected to the electroluminescent element, the nonuniformity in the luminous intensity of the luminescent element, caused by the nonuniformity in the

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conductance of the transistor, would be reduced, thereby the image quality would be improved (col. 2, lines 1-10, and lines 19-49 of Kimura.) Furthermore, such modification would greatly improve the performance of the device of Forrest due to an ease in controlling the device.

Forrest in view of Kimura is silent on the operating voltage(s) of the disclosed luminescent-material-using device; however, since the device of Forrest in view of Kimura is structurally identical to the claimed device, as discussed above, one of ordinary skill(s) in the art would have expected that the device of Forrest in view of Kimura would have performed the same function(s) as that of the claimed device, or that the device of Forrest in view of Kimura would have been capable of operating at the same voltage(s) as that of the claimed device. See further the above remarks.

Regarding claim 90, Forrest/Kimura disclose the device wherein the transistor is a thin film transistor. See col. 2, lines 19-49; col. 3, line 47 to col. 4, line 61 of Kimura.

Regarding claim 91-95, Forrest/Kimura disclose the device comprising all claimed limitations. See col. 16, line 65 to col. 17, line 8 of Forrest.

Regarding claims 96-109, Forrest/Kimura disclose the device comprising all claimed limitations. See the above remarks.

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## Conclusion

5. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the day of this letter. Failure to respond within the period for response will cause the application to become abandoned (see M.P.E.P 710.02(b)).

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao H. Nguyen whose telephone number is (571)272-1791. The examiner can normally be reached on Monday-Friday, 9:00 AM – 6:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Loke, can be reached on (571)272-1657. The fax numbers for all communication(s) is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1625.

Dao H. Nguyen Art Unit 2818

August 15, 2007